

WHAT IS CLAIMED IS:

1. A communication system including a mobile station capable of transmitting a plurality of control channels, wherein at least 5 one of the control channels has pilot data placed separately at a plurality of positions within a transmission unit time.
2. The communication system according to claim 1, wherein the plurality of positions are assigned to fields formed by dividing 10 the transmission unit time into a plurality of subdivisions.
3. The communication system according to claim 1, wherein when said mobile station is in a soft handover state, pilots are placed at a plurality of positions within the transmission unit time. 15
4. A communication system including a mobile station capable of transmitting a channel in which pilot data is included and a transmission rate of data other than the pilot data is variable, wherein a transmission rate of the pilot data is varied in response 20 to the transmission rate of the data other than the pilot data.
5. The communication system according to claim 4, wherein the pilot data is transmitted uninterruptedly in a field including no other data but the pilot data. 25
6. The communication system according to claim 4, wherein when said mobile station is in a soft handover state, the transmission rate of the pilot data is varied.